CLAIMS

1. A method for concentrating and purifying nucleic acid by use of electrophoresis, characterized in that electric charge on impurity contained together with nucleic acid in a sample is adjusted before the sample is placed into an electric field so as to concentrate and purify the nucleic acid.

2. A method for concentrating and purifying nucleic acid by use of electrophoresis, characterized in that cationic surfactant is added into a sample containing nucleic acid so as to adjust electric charge on impurity contained in the sample, and then the sample is placed in an electric field and subjected to electrophoresis so as to concentrate and purify nucleic acid.

3. A method for concentrating and purifying nucleic acid by use of electrophoresis, characterized in that cationic surfactant and nonionic surfactant are added into a sample containing nucleic acid so as to adjust electric charge on impurity contained in the sample, and then the sample is placed in an electric field and subjected to electrophoresis so as to concentrate and purify nucleic acid.

4. The method for concentrating and purifying nucleic acid according to claim 3, wherein the cationic surfactant is adsorbed on the matter other than nucleic acid so as to adjust electric charge on the matter, and the adsorption degree of the cationic surfactant is adjusted by the amount of the added nonionic surfactant.

5. A device for concentrating and purifying nucleic acid, characterized in that nonionic surfactant and cationic surfactant are added to a sample, and the sample is subjected to electrophoresis so as to concentrate and purify nucleic acid on an anode side.

6. A device for concentrating and purifying nucleic acid by use of electrophoresis, characterized by a container having side surfaces made of isolative material is partitioned into a sample introduction chamber and a nucleic acid collection chamber by an electro-conductive separation member

for prevention of expansion, and the container is connected at an end thereof to an electrode through a buffer tank.